

What is claimed is:

1. A networked camera system, comprising:

a plural number of networked cameras;

a networked monitor;

5 an index server; and

a network, wherein said cameras, said monitor and said server are connected, respectively, through said network, for monitoring a picture transmitted from said networked camera on said networked monitor, and wherein

10 each of said networked cameras comprises: a memory for memorizing networked camera information for discriminating the networked cameras, respectively; an image pickup element for picking up the picture; and a transmitter for transmitting said picture picked-up to said networked monitor upon receipt of a
15 connection request from said networked monitor,

said index server comprises: a register for registering the networked camera information of each of said networked cameras; a search unit for searching connection information to the networked camera corresponding thereto, depending upon a monitoring object
20 transmitted from said networked monitor, with using the networked camera information registered in said register; and a transmitter for transmitting said connection information searched to said networked monitor,

said networked monitor comprises: a transmitter for
25 transmitting said monitoring object to said index server; a connection request unit for connecting to a predetermined networked camera and requesting the picture picked-up, upon basis of the connection information transmitted from said index server; and a display for displaying the picture transmitted from said

networked camera thereon, and

said networked camera and said networked monitor transmits the picture picked-up through connection to each other.

2. The networked camera system, as described in the claim
5 1, further comprising a storage, being connected through said network, wherein

said storage comprises a storage unit for storing monitor pictures transmitted from said networked camera, and a transmitter for transmitting said monitor picture upon a transmission request
10 from said networked monitor.

3. The networked camera system, as described in the claim 1, wherein said networked camera information includes at least one of an ID of said networked camera, position information with using a latitude and a longitude, an ID of a road, on which said
15 networked camera is provided, a distance from a reference point of the road, on which said networked camera is provided, and a network address of said networked camera.

4. The networked camera system, as described in the claim 1, wherein said register registers network address and position
20 information of said networked camera relating therewith, when registering said networked camera information therein.

5. The networked camera system, as described in the claim 1, wherein said networked monitor comprises a controller for controlling destination of connection by said connection
25 requesting unit.

6. The networked camera system, as described in the claim 5, wherein said networked camera has a detector for detecting an object as being a monitoring target, and said controller of said networked monitor controls, so as to receive the monitor picture
30 from said networked camera picking-up the object, which is detected

by said detector.

7. The networked camera system, as described in the claim 6, wherein said object comprises a unit to be detected by said detector.

5 8. The networked camera system, as described in the claim 7, wherein said detector of said networked camera is a sensor for generating radio waves, and said unit to be detected of said object comprises a unit for generating radio waves for response when detecting said radio wave.

10 9. The networked camera system, as described in the claim 8, wherein said detector receives latitude and longitude information from a system enabling measurement of the latitude and the longitude, and transmits said latitude and longitude information to said index server or said networked camera, thereby
15 using it as a function of a sensor through detecting that it is within a region of the latitude and the longitude, which said network camera sets.

 10. The networked camera system, as described in the claim 5, wherein said register registers an ID of said object and an
20 ID of the networked camera, which captures said object on the sensor thereof.

 11. The networked camera system, as described in the claim 1, wherein said networked monitor transmits said connection information to other networked monitor, and the other networked
25 monitor makes a connection request to the networked camera having said connection information, to receive the monitor picture from said networked camera, thereby conducting exchanging control between said plural number of networked monitors.

 12. The networked camera system, as described in the claim
30 1, wherein said networked monitor comprises a guidance display unit for displaying a guidance of mapping locations of said

networked cameras on a map.

13. The networked camera system, as described in the claim 1, wherein networked monitor comprises an exchanger, and said exchanger exchanges destination of distribution of the monitor picture from said networked camera to other networked monitor.

14. The networked camera system, as described in the claim 1, further comprising an accounting unit for allowing said networked monitor to account onto said object, upon basis of fact that the object being the monitoring target concludes to enter into a contract to be monitored between said networked monitor.

15. The networked camera system, as described in the claim 2, wherein said storage is constructed to be located in said networked camera and said networked monitor dispersedly.

16. A networked camera system, comprising:

a plural number of networked cameras;

a networked monitor;

an index server; and

a network, wherein said cameras, said monitor and said server are connected, respectively, through said network, for monitoring a picture transmitted from said networked camera on said networked monitor, and wherein

each of said networked cameras has networked camera information for discriminating said networked cameras, respectively, and networked camera information of other networked camera, and comprises: an image pickup element for picking up the picture; a first search unit for searching connection information of requiring monitor from the networked camera information of said other networked camera upon receipt of a request of said networked monitor; and a transmitter for transmitting said picked-up monitor

picture and the connection information searched out by means of said first search unit, to said networked monitor, upon receipt of a request from said networked monitor,

said index server comprises: a register for registering
5 the networked camera information of each of said networked cameras;
a second search unit for searching connection information to the
networked camera corresponding to the request of said networked
monitor from said networked camera information registered; and
a transmitter for transmitting said connection information
10 searched to said networked monitor,

said networked monitor comprises: a transmitter for
transmitting said monitoring object to said index server; a
connection request unit for connecting to a networked camera, to
which a use requires monitoring, from the connection information
15 transmitted from said index server or the connection information
transmitted from said networked camera, thereby requesting a
monitor picture thereto; a controller unit for controlling
destination of connection by said connection request unit; and
a display for displaying the monitor picture transmitted from said
20 networked camera thereon, and

said networked camera and said networked monitor transmits
the picture picked-up through connection to each other, and
exchange to the networked camera requiring the monitoring is
conducted by said first search unit and said transmitter of said
25 networked camera.

17. The networked camera system as described in the claim
1, wherein said networked camera and said networked monitor conduct
transmission of the monitor picture through mutual connection
therebetween, without passing through the index server.

30 18. The networked camera system as described in the claim
16, wherein said networked camera and said networked monitor
conduct transmission of the monitor picture through mutual

connection therebetween, without passing through the index server.

19. The networked camera system as described in the claim 1, wherein said search unit calculates the monitoring target transmitted from said networked monitor, from the networked camera
5 information registered in said register, thereby searching out the connection information from the calculation result.

20. A monitoring method comprising the following steps of:

a step for connecting a networked camera, having a unit for setting networked camera information and a unit for picking
10 up a monitor picture therein, to a network;

a step for registering said networked camera information to an index server, which is connected to said network;

a step for designating a monitoring region desired to the networked monitor connected to said network;

15 a step for transmitting the monitoring region designated from said networked monitor to said index server;

a step for searching the networked camera information upon basis of said monitoring region received, from the networked camera information registered, in said index server;

20 a step for transmitting said networked camera information searched to said networked monitor;

a step for selecting the networked camera information of the networked camera, to which the monitoring is required, from the networked camera information received by said networked
25 monitor;

a step for transmitting a connection request from said networked monitor to the networked camera having said networked camera information selected;

a step for transmitting the monitor picture, from the networked camera, on which said connection request is made, without passing through the index server, to the networked monitor connected to each other; and

- 5 a step for displaying the monitor picture received on said networked monitor.